PRE-CERCLA SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLA screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets for the narrative.

Checklist Prepare	er:												
Timothy J. Gr	ape, P.G./Hydrogeolo	ogist, Project N	1anager	12/2	9/2014								
	(Name / Title)			1)	Date)								
Mii	nnesota Pollution Cor	ntrol Agency		651-7	57-2893								
	(Agency)			(Pl	none)								
	timothy.grape@stat	e.mn.us											
	(Email Address	s)											
Site Name:		Alexandri	ia Municipal Well Co	ntamination, SA2	47								
Other Names (if a	any):	Petroleum	Leak Site 114, Petro	leum Leak Site 17	238								
Site Location:		Bro	adway Street and 3 ^{rc}	Avenue West									
			(Street)										
	Alexan		Douglas	MN	56308-:								
Congressional Dis	(City	7)	(County)	(State)	(Zip+	-4)							
			T '/ 1	05 2776	120 14/								
Latitude: 45.889460° N Longitude: -95.377613°													
Geospatial Data			_		MPCA Oc	tober 20	14						
Accuracy (+/-m)	+/- 30m	Collection Method:	Map interpolation Google Earth	Ref. Datum:	NAD83								
Accuracy (+/-III)	Center of	Wiethou.	doogie Luttii	Kei. Datum.	IVADOS								
	intersection at	G 34		D : (7: /									
Ref. Point:	Broadway St. & 3 rd Avenue West	Source Map Scale:		Point/Line/ Area:	Point								
Collection Date:	10/31/2014	Verification Method:	N/A										
Conection Date.	10/31/2014	Method.	I N/A	<u> </u>									
Complete the follo	owing checklist.				YES	NO	1						
Does the site all	ready appear in SEMS?						1						
2. Is there an actua	al release or potential to rel	ease?			•								
			water wells, drinking sur	face water intakes, etc	.)								
3. Is there documentation indicating that a target (e.g., drinking water wells, drinking surface water intakes, etc.) has been exposed to a hazardous substance released from the site?													
T	ed to a nazardous substance	teleased from the	, site:				1						
	tial targets on-site or within												

EPA-540-F-98-039 OSWER 9375.2-11FS Updated by EPA – Region 5 October 1999 PB98-963310 October 2014

adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data

	showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?	
6.	Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	
7.	Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	
8.	Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	•
9.	Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	
10.	Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	
11.	Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	•

Preparer's Recommendation:		Enter the site into SEMS. Further assessment is recommended
	П	The site is not recommended for placement into SEMS

Please explain recommendation below:

DECISION/DISCUSSION/RATIONALE:

- 2. Petroleum hydrocarbons & chlorinated solvents have been detected in municipal water supply wells.
- 3. Municipal supply wells are impacted with volatile organic compounds (VOCs) including petroleum and chlorinated VOCs (CVOCs).
- 4. The Site is located in a mixed commercial/residential area. Potential for vapor intrusion, soil exposure, and ground water exposure/drinking water exposure due to municipal water supply wells.
- 6. MPCA petroleum remediation program (PRP) and Site Assessment
- 10. Petroleum exclusion a mix of petroleum and non-petroleum compounds have been identified in the municipal supply wells.

General Discussion

This site involves contamination of municipal supply wells with trichloroethylene (TCE) above the cancer risk benchmark of 1 μ g/L. Contaminant distribution and concentrations justify further investigation and potentially contaminant mitigation.

City of Alexandria municipal supply wells 4, 6 and 7A were contaminated with petroleum and non-petroleum (chlorinated volatile organic compounds) contamination. The south well field was abandoned in June of 1998 including wells 4-& 6. MPCA Petroleum Remediation Program (PRP) has been sampling the city municipal wells since 2008 under PRP Leak sites 114 and 17238. Municipal well locations are illustrated on the attached Figure 1 and a summary table of the laboratory analytical results is attached as Table 1B.

On-going petroleum work includes continuing sampling of the municipal supply wells and an aquifer study designed to determine the relationship between ground water at Leak site 17238 and ground water at municipal well 7A.

Compounds detected in existing municipal supply well 7A consisted of TCE, *cis*-1,2-dichloroethene (DCE), 1,2-dichloroethane (DCA), and 1,4-dichlorobenzene. The concentrations of these compounds are currently below

EPA Maximum Contaminant Levels (MCLs) and current Minnesota Department of Health (MDH) Health Risk Limits (HRLs). However, the TCE concentrations observed in municipal well 7A are above the interim MDH guidance for TCE (Health Based Value or HBV). TCE concentrations detected in municipal supply well 7A have ranged from 1.1 μg/L to 5.1 μg/L. Cis-1,2-DCE concentrations detected in municipal supply well 7A have ranged from 0.6 μg/L to 1.9 μg/L. TCE was also detected in municipal supply well 8A in the March 2014 (0.77 μg/L), June 2014 (0.94 μg/L) and August 2014 (0.67 μg/L) sampling events. Analytical results from municipal supply wells are summarized on Table 1B attached.

Prepa	arer's Signature:	Print Name/Signature	3/26/2015 Date
EPA	Regional Review a	nd Site Assessment Decision	
X		ther action under CERCLA	
	Not a valid site	or incident	
Defe	r/Refer to:		
	Removal Progr	am	
	State/Tribal Pr		
	RCRA		
	Brownfields		
	Other:		
		Dente A Brasana	
Regi	onal EPA Reviewe	r: David Brauner 4/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	4/7/15 Date

References:

WCEC, 2012, Alexandría Well Field Contamination Investigation Summary Report – FY 2011-2012, MPCA Site ID No.: Leak0000114, WCEC Project No.: 06-5494-30, dated June 29, 2012, prepared by West Central Environmental Consultants (WCEC), Maple Grove, Minnesota, pp. 427.

Attachments:

Maps

Figure 1 - Well Location Diagram

Figure 2 - Site Location Map

<u>Tables</u>

Table 1B - Laboratory Analytical Results

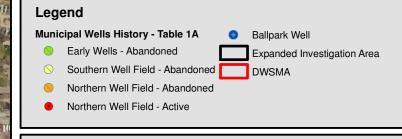


Figure 1: Municipal Supply Wells: Location Map

			Screen	1,2-DCA	
	Unique	Current	Interval (ft	(ug/L)	Other VOC's
Well name	ID.	status	bgs)	detected?	detected?
30 Driven Wells	-	abandoned	-	Not Sampled	Not Sampled
2 Bored Wells	-	abandoned	-	Not Sampled	Not Sampled
Dug Well	-	abandoned	-	Not Sampled	Not Sampled
Old Well	-	abandoned	-	Not Sampled	Not Sampled
Drilled Well	-	abandoned	-	Not Sampled	Not Sampled
New Well	-	abandoned	-	Not Sampled	Not Sampled
Well No. 1	-	abandoned	-	Not Sampled	Not Sampled
Well No. 2	-	abandoned	-	Not Sampled	Not Sampled
Well No. 3	214752	abandoned	78 - 105	Not Sampled	Not Sampled
Well No. 4	214753	abandoned	30	Yes	Yes
Well No. 5	-	abandoned	-	Unknown	Unknown
Well No. 6	-	abandoned	-	Yes	Yes
Well No. 6A	214754	abandoned	80 - 105	Unknown	Unknown
Well No. 7	214755	abandoned	90 - 130	Unknown	Unknown
Well No. 7A	214756	active	96 - 129	Yes	Yes
Well No. 8	214757	abandoned	96 - 126	Unknown	Unknown
Well No. 8A	214758	active	99 - 119	No	No
Well No. 9	214759	active	96 - 118	No	No
Well No. 10	241356	abandoned	104 - 129	No	No
Well No. 11	241357	abandoned	87 - 107	Yes	No
Well No. 12	475655	abandoned	90 - 125	No	Yes
Well No. 13	635452	active	106 - 126	No	No
Well No. 14	680655	active	92 - 127	No	No
Well No. 15	685764	active	92 - 132	No	No
Well No. 16	749302	active	85 - 120	No	No
Well No. 17	762288	active	99.5 -134.5	No	No
Ballpark Well	601366	active	92 - 107	No	No

Highlighted Area - Indicates information is updated from the Phase I Report dated 4/24/07

See Table 1A and 1B for Municipal Well Details.



Alexandria Well Field Contamination Project MPCA Site ID #: LEAK0000114 WCEC Project No.: 06-5494-30



Map Date: February 2009 0 200 400 800 1,2



Figure 2: Site Location Diagram

Alexandria Well Contamination Site MPCA Site Assessment Site SA247 Broadway Street and 3rd Avenue West, Alexandria, Minnesota

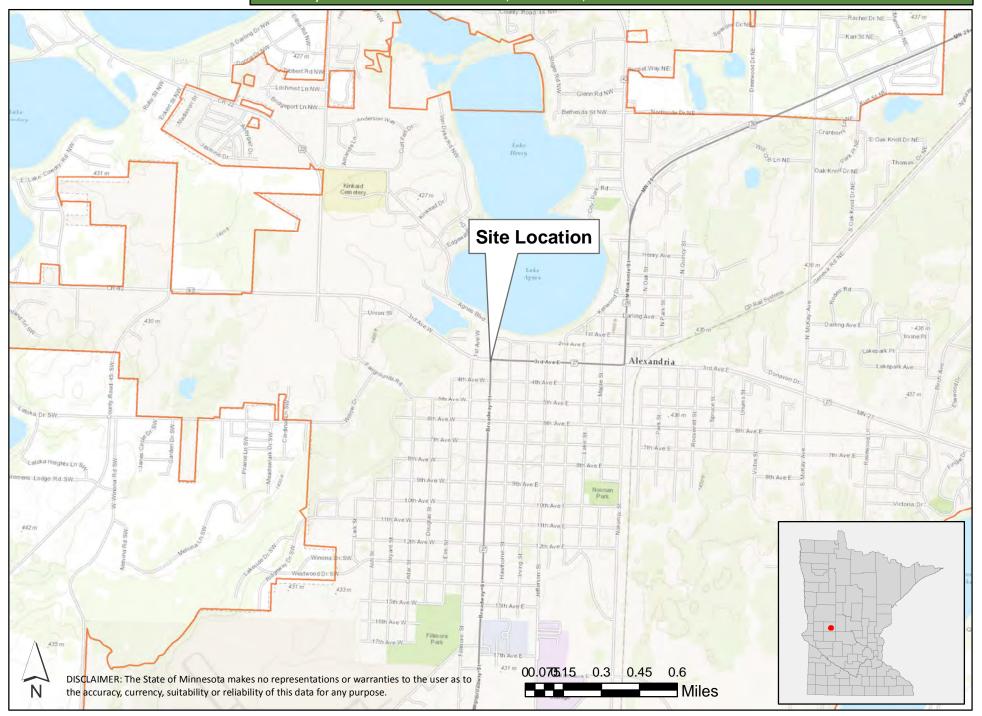


Table II). IVI	umc	лраг	Ծաբ	pry	** C	2115.	LIC	-110	ai v	UC	Sai	шрі	mg i	VC21	шь, г	nexa	IIUI	ia v	A CII	1.101	u C	Onc	11111	iau	on Project, MPCA Leak Site 114
Well Name	Unique Well ID	Status	Sample Date	1,2-DCA (µg/L)	Вепzепе (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Xylenes (µg/L)	Chloroethane (µg/L)	Chloro methane (µg/L)	MEK (µg/L)	MTBE (µg/L)	Isopropylbenzene/ Cumene (µg/L)	n-propylbenzene (µg/L)	Styrene (µg/L)	Tetrachloroethene/ Tetrachloroethylene (ug/L)	1,2,4-trimethylbenzene (µg/L)	Cis-1,2-Dichloroethylene	1,4 Dichlorobenzene	Trans-1,2 Dichloroethylene	Trichloroethene/ Trichloroethylene (μg/L)	Acetone	Bromodichloromethane	Cmorotorm Dibromochloromethane	GRO	Data Source
Alexandria Municipal Well #1	NA	Sealed								No k	nown ana	ilytical sa	ampling	lata avail:	able.											
Alexandria Municipal Well #2	NA	Sealed								No k	nown ana	ilytical sa	ampling	lata avail	able.									_		
Alexandria Municipal Well #3	214752	Sealed								No le		Intical or	omalino	lata avail:	oblo											
rucxandra Wanterpar Wen #5	214732	Scaled								110 K	llown and	llyticai se	impinig.	lata avam	ioic.											
Alexandria Municipal Well #4	214753	Sealed	1984		14																				_	Wellhead Protection Plan, Part II (2003)
•			06/07/84	2.1												< 0.1					< 0.1					Original Laboratory Report in MPCA Leak File #114 (1)
			07/13/84	< 0.1	<1.0											< 0.1					< 0.1					Original Laboratory Report in MPCA Leak File #114 (1)
			08/14/84		4.4	_							-			< 0.1					0.6				_	Original Laboratory Report in MPCA Leak File #114 (1)
	<u> </u>		11/28/84			-	1	ļ	-		+		+	-	-	0.7			-		0.4	-	\vdash	+	┿	Original Laboratory Report in MPCA Leak File #114 (1)
			05/01/85			+	-				+		1	-	-	0.1 <0.1		-			0.7			-	+	Original Laboratory Report in MPCA Leak File #114 (1) Original Laboratory Report in MPCA Leak File #114 (1)
	1	1	06/18/85	1.1		1	+	1		1	+	1	+			<0.1			1		0.4	+		_	+	Original Laboratory Report in MPCA Leak File #114 Original Laboratory Report in MPCA Leak File #114 (1)
			10/17/86	0.98		5.2	20	28.5			12		2.6			<2.0					0.0				\top	Original MDH Laboratory Report in MPCA Leak File #114 (2)
			9/23/93		3.8	<1.0	6.6	12																		Groundwater Quality Summary Table in MPCA Leak File 3864 (5)
			6/18/96	0.4	1.5	< 0.2	2.6	1.5			<10		0.7	0.8	< 0.5	< 0.2	1.2				0.3					Original MDH Laboratory Report in MPCA Leak File #114 (3)
Alexandria Municipal Well #5	NA	Sealed			1		_			No k	nown ana	llytical sa	ampling	lata avail	able.										_	
Alexandria Municipal Well #6	NA	Sealed								No k	nown and	lutical es	ampling	lata avail:	able										+	
rucxandra wamerpar wen no	1421	Scarca								110 K	llown and	I stream se	imping.	lata avam	dorc.											
Alexandria Municipal Well #6A	214754	Sealed	06/07/84	0.2	2.4											1.4					< 0.1					Original Laboratory Report in MPCA Leak File #114 (1)
			07/13/84													0.2					< 0.1					Original Laboratory Report in MPCA Leak File #114 (1)
			08/14/84		<1.0											2.0					0.5					Original Laboratory Report in MPCA Leak File #114 (1)
			11/28/84			-	<u> </u>				+		_			1.6					0.2				+-	Original Laboratory Report in MPCA Leak File #114 (1)
			05/01/85	<0.1		+	-				+		1	-	-	1.4		-			0.3			-	+	Original Laboratory Report in MPCA Leak File #114 (1) Original Laboratory Report in MPCA Leak File #114 (1)
	1	1	09/23/93	⟨0.1	1.2	<1.0	4.3	3.3			+		+			1.2				1	0.3			+	+	Groundwater Quality Summary Table in MPCA Leak File 3864 (5)
Alexandria Municipal Well #7	214755	Sealed								No k	nown ana	ilytical sa	ampling	lata avail	able.											
11 1: 14 1: 13/11/07	21.4756	0.00.	05/15/04	0.4	1.0											0.1					0.1				+	O : : IX I
Alexandria Municipal Well #7A	214756	Offline	05/15/84			-	+	-	-	1	+	1	+	1	1	<0.1					<0.1	-	\vdash	+	+	Original Laboratory Report in MPCA Leak File #114 (1) Original Laboratory Report in MPCA Leak File #114 (1)
	1	1	11/28/84		<2.0		1	1			+		+			<0.1				1	<0.1			+	+	Original Laboratory Report in MPCA Leak File #114 Original Laboratory Report in MPCA Leak File #114 (1)
	1		05/01/85		<1.0		1	1			1		1			0.4					< 0.1					Original Laboratory Report in MPCA Leak File #114 (1)
			10/17/86	0.6	< 0.5			<1.0			< 5.0		<1.0			<2.0										Original Laboratory Report in MPCA Leak File #114 (2)
			06/18/96	0.4	< 0.2			< 0.4			<10		< 0.5	< 0.5	< 0.5	< 0.2	< 0.5				< 0.1	1			\perp	Original MDH Laboratory Report in MPCA Leak File #114 (5)
	<u> </u>	<u> </u>	09/05/01	0.3	<0.2			< 0.4	!	-	<10	-	< 0.5	< 0.5	< 0.5	<0.2	< 0.5	-	-	├	< 0.1	1	\vdash	+	+	Original MDH Laboratory Report in MPCA Leak File #114 (4)
	1	 	06/03/02	<0.2	<0.2	<0.2	<0.2	<0.4	<1	<1	<10 <5	<2	<0.5	<0.5 <1	<0.5 <1	<0.2	<0.5 <1	-1	<1	<1	<0.1	<10	\vdash	+	+	Original MDH Laboratory Report received from ALP Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
	 	\vdash	09/29/08	<1	<1	<1	<1	<1	<1 <1	<1 <1	<5	<2	<1.0	<1 <1	<1	<1.0	<1	<1	<1	1	1.2	<10		+	+	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
	l –	t	12/01/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	1.1	<1	<1	1.9	<10		\top	\top	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			09/30/09		< 0.5	<1	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	<1	<1	<1	1.1	<10			L	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			12/21/09		0.5	< 0.3		< 0.8	< 0.3	< 0.3	<3.4			< 0.3	< 0.3	< 0.3	< 0.3	0.9	< 0.3	< 0.3	1.6	<5.2				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		↓	03/31/10		1	<0.5		<2	< 0.5	< 0.5	<5			<1	<1	< 0.5	<1	1.3		0.5	2.4	<5	\vdash	_	+	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	+	├	06/04/10	0.5				<0.8	<0.3	<0.3	<3.4			<0.3	<0.3	<0.3	<0.3	2	<0.3	<0.3	1.9 4.8	<5.2 <20	\vdash	+	<40	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Dup (MU7d)	+	 	09/27/10	0.8		<1.0 <1.0		<2.0	<1.0	<1.0	<5 <5		<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<0.5	0.6	5.1	<20	 	+	+	Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Dap (MO74)	t	 	12/16/10	0.6	0.6	<1.0		<2.0	<1.0	<1.0	<5		<1.0	<1.0	<1.0	<1.0	<1.0	0.9	<0.5	<0.5	1.8	<20		+	+	Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Dup (MU7d)	t -	1	12/16/10	<0.5			<1.0	<2.0	<1.0	<1.0	<5			<1.0	<1.0	<1.0	<1.0	0.8	< 0.5	< 0.5	1.6	<20			\top	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/29/11	< 0.5	< 0.5	<1.0	<1.0	<2.0	<1.0	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.8n	< 0.5	< 0.5	2.2	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Dup (MU7d)			03/29/11	< 0.5				<2.0	<1.0	<1.0	<5.0			<1.0	<1.0	<1.0	<1.0	0.7n		< 0.5	2.2	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
5 4475	1	<u> </u>	06/16/11	< 0.5			<1	<2	<1	<1	<5		<1	<1	<1	<1	<1	0.6	< 0.5	< 0.5	1.3	<20	$\vdash \vdash$	4	+	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Dup (MU7d)	1	<u> </u>	06/16/11 09/28/11	<0.5	<0.5 <1	<1 <1	<1	<2	<1 <1	<1 <4	<5 <4	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<1 <1	<0.5 <1	<0.5 <1	<0.5 <4	1.4	<20 <25	\vdash	+	+	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Dup (MU7d)	 	 	09/28/11		<1	<1	<1 <1	<3	<1 <1	<4	<4	<1 <1	<1	<1	<1	<1 <1	<1	<1	<1	<4	1.5	<25	\vdash	+	+	
1 ()			12/15/11						< 0.32	0.98	<2				< 0.35	< 0.26	<0.26	0.63			1.8	<12.5	<0.23 <0			
Dup (MU7d)			12/15/11	0.41				<1.1	< 0.32	< 0.36			< 0.36	< 0.42	< 0.35	< 0.26	< 0.26	0.83		0.22	2.2	<12.5	< 0.23 < 0	.34 <0.3	36	

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According Managrad Well 19 No. 1967-19 10 10 10 10 10 10 10	Well Name	Unique Well ID	Status		1,2-DCA (µg/L)	Benzene (µg/L)	Toluene (µg/L)		Xylenes (µg/L)	Chloroethane (µg/L)	Chloro methane (µg/L)	MEK (µg/L)	MTBE (µg/L)	Isopropylbenzene/ Cumene (µg/L)		Styrene (µg/L)	Tetrachloroethene/ Tetrachloroethylene (ug/L)	1,2,4-trimethylbenzene (µg/L)	Cis-1,2-Dichloroethylene	1,4 Dichlorobenzene	Trans-1,2 Dichloroethylene	Trichloroethene/ Trichloroethylene (µg/L)	Acetone	Bromodichloromethane			Data Source
According Manifold Well 1906. 10 10 10 10 10 10 10 1																											
	Alexandria Municipal Well #8	214757	Sealed								No kn	own ana	lytical sai	mpling o	lata avaılı	able.									_	_	
	A1 J.:- M:-:1 W/-11 #0 A	21.4750	A -4:	00/05/01	-0.2	-0.2	-0.2	-0.2	-0.4			-10		-0.5	-0.5	-0.5	-0.2	-0.5				-0.1	1				Ocidinal MOULL shows and in MOCA Loads File #114 (4)
	Alexandria Municipai Weli #8A	214/58	Active		_	_	_	_		-21	-1		- 2						-1	-1	-1		-10	\vdash	_	_	
125108 21 21 21 21 21 21 21 2			 					_																	-	+	
								<1																		+	
			1					<1																		_	
Marie Mari			1																								
Graph Grap					_																						
			1	06/04/10	< 0.3	< 0.3				< 0.3	< 0.3	<3.4	0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.3	< 0.3	< 0.3	8.9			<	
Marchell				09/27/10	< 0.5	< 0.5	<1.0	<1.0	< 2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
Fig. 10 10 10 10 10 10 10 10																											
			<u> </u>		<u> </u>		_																				
			<u> </u>					<1						_	_	_								\sqcup			Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			1																					0.20	0.04	26	
Alexandria Municipal Well #9 214759 Active 015001 012 012 012 012 013 014 014 014 015			<u> </u>									_			_												
Alexandru Municipal Well #9 2,177 Active 695.01 .02 .02 .02 .02 .02 .03 .04 .04 .05		-	1		-			_											_		_						
696408 21 21 21 21 21 21 21 2				00/08/12	<1	<1	<1	<1	<2	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<23	<1	<1	.4	
696408 21 21 21 21 21 21 21 2	Alexandria Municipal Well #9	21/759	Active	09/05/01	<0.2	<0.2	<0.2	<0.2	<0.4			<10		<0.5	<0.5	<0.5	<0.2	<0.5				<0.1	1				Original MDH Laboratory Report in MPCA Leak File #114 (4)
	zuczandna Wunicipai Wen #7	214/37	Active					_		<1	<1		0						<1	<1	<1		<10			_	
120108																										_	
Part					_																						Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
March Marc			1	09/30/09	< 0.5	< 0.5		<1	<2	< 0.5	< 0.5	<5		<1	<1	<1	< 0.5	<1	<1	<1	<1	< 0.5	<10				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
				12/21/09	< 0.3	< 0.3	< 0.3	< 0.3	< 0.8	< 0.3	< 0.3	<3.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.4	<5.2				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
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			1																					<0.23	0.34 4	26	
Alexandria Municipal Well #10 241356 Sealed 90/501 4.02 4.02 4.02 4.02 4.04 4.04 4.04 4.04 4.05								_												10.51							
Alexandria Municipal Well #10 241355 Sealed 09050 0.2 0.2 0.2 0.2 0.4			1																								
Alexandria Municipal Well #11 241357 Sealed 060302 0.2 0.2 0.2 0.2 0.4																											
Alexandria Municipal Well #11 241357 Sealed 06/03/02 0.3 0.0	Alexandria Municipal Well #10	241356	Sealed	09/05/01	< 0.2	< 0.2	< 0.2	< 0.2	< 0.4			<10		< 0.5	< 0.5	< 0.5	< 0.2	< 0.5				< 0.1					Original MDH Laboratory Report in MPCA Leak File #114 (4)
Alexandria Municipal Well #12				06/03/02	< 0.2	< 0.2	< 0.2	< 0.2	< 0.4			<10		< 0.5	< 0.5	< 0.5	< 0.2	< 0.5				< 0.1					Original MDH Laboratory Report received from ALP
Alexandria Municipal Well #12																											
Alexandria Municipal Well #13 6354 2	Alexandria Municipal Well #11	241357	Sealed	06/03/02	0.3	< 0.2	< 0.2	< 0.2	< 0.4			<10		< 0.5	< 0.5	< 0.5	< 0.2	< 0.5			_	< 0.1	\vdash		_	\perp	Original MDH Laboratory Report received from ALP
Alexandria Municipal Well #13 6354 2	Alama dela Manda il 1997 (1912)	475.55	0.1	00/10/0				0.5						0.5													O CONTROL OF THE CONT
Mode March March	Alexandria Municipal Well #12	475655	Sealed	09/10/02	< 0.2	<0.2	1.2	0.2	< 0.4			<10		< 0.5	< 0.5	0.6	< 0.2	< 0.5				< 0.1	\vdash		_	_	Original MDH Laboratory Report received from ALP
Mode March March	Alayandria Municipal Wall #12	635452	Anti	06/04/00	-1	-1	1	-1	-21		-1	-5	-2	<1.0	-1	-1	<1.0	-1		- 21	-1	-1	<10				Compling analysis performed during Dhase 2 (see attached MVTL I - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
1201/08	racanura municipai wen #15	055452	ACTIVE		<1	<1	<1	< 1	<1	<1	<1	<>>							<1	<1	<1	<1	<10		ı		
Not sampled due to repair made that removed the sampling port. Not sampled due to repair made that removed the sampling port. Sampling analysis performed during Phase 3 (see attached Laboratory Report)		—	\vdash	07.127.00	<1	<1	<1	<1	<1	<1	<1	<5							<1	<1	<1	<1	<10	П	- 1	\neg	
1/2/1/9 Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampl					×1	~1			×1	\.									ort.	~1		\.I	\10				
03/31/10 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5 < 0.5 0.5			t —																								
06/04/10 0.3			1		<1	< 0.5	< 0.5	<1	<2	< 0.5	< 0.5									< 0.5	< 0.5	< 0.5	<5				
12/16/10 <1.0 <0.5 <1.0 <1.0 <2.0 <1.0 <1.0 <2.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.0 <1.				06/04/10											< 0.3			< 0.3								<	
03/29/11 0.5 0.5 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.2				09/27/10	< 0.5	< 0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
06/16/11 0.5 0.5 0.5 0.1 0.1 0.2 0.1 0.1 0.2 0.1 0.1 0.2 0.3						_	_	_				_				_							_				
09/28/11 <1 <1 <1 <1 <1 <1 <1			lacksquare	00.00.00				_																ШΤ	Ţ	\Box	
12/15/11 < 0.23			<u> </u>																					\sqcup			Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			1	+																					0.24	26	
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1060812 d d d d d d d d d		-	 																								+
	L		-	30/00/12	~1	\ \1	~1		~	\.			\1	~1	~1	~1		\.	~1	~1	~1	\1	~23	~1	~1		

Tuble 11			10 001	~ •- -p	P-J							~ ***				,,,,										ion i roject, wir eri Deak Bite i i i
Well Name	Unique Well ID	Status	Sample Date	1,2-DCA (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Xylenes (µg/L)	Chloroethane (µg/L)	Chloro methane (μg/L)	MEK (µg/L)	MTBE (µg/L)	Isopropylbenzene/ Cumene (µg/L)	n-propylbenzene (µg/L)	Styrene (µg/L)	Tetrachloroethene/ Tetrachloroethylene (ug/L)	1,2,4-trimethylbenzene (µg/L)	Cis-1,2-Dichloroethylene	1,4 Dichlorobenzene	Trans-1,2 Dichloroethylene	Trichloroethene/ Trichloroethylene (µg/L)	Acetone	Bromodichloromethane	Chloroform	Dibromochioromethane	Data Source
Alexandria Municipal Well #14	680655	Active	06/04/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			09/29/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			12/01/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			09/30/09	< 0.5	< 0.5	<1	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	<1	<1	<1	< 0.5	<10				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			12/21/09	< 0.3	< 0.3	< 0.3	< 0.3	< 0.8	< 0.3	< 0.3	<3.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.4	<5.2				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/31/10	<1	< 0.5	< 0.5	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	< 0.5	_	< 0.5	< 0.5	<5				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	†		06/04/10	< 0.3				< 0.8	< 0.3	< 0.3	<3.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3	7.4		-	<	40 Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			09/27/10													to collect sa										Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	1		12/16/10	<1.0	< 0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20	П		Т	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/29/11	<0.5	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5		<0.5	<1.0	<20			\dashv	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	†		06/16/11	<0.5	<0.5	<1.0	<1.0	<2	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5		<0.5	<1.0	<20	\vdash	-	\dashv	Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	1	1	09/28/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<25	1	-+	+	pamping analysis performed during rease 3 (see allactica Laboratory Report)
	†	 	12/15/11	<0.23	<0.36		_	<1.1	<0.32	3.2	<2	<0.24	<0.36	<0.42	<0.35	<0.26	<0.26	<0.37	_	<0.21	<0.2		(0.22	<0.34 <0	36	
	-	-	03/28/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<0.20	<0.20	<1	<1	<1	<0.2	<25	<1	<1 <		
	-	-	06/08/12		<1		<1	<3	<1	<4	<4		<1	<1	<1	<1	<1	<1		<1	<1	<25		<1 <		
			06/08/12	<1	<1	<1	<1	<.5	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<23	<1	<1 <	1.1	
A1	C057C4	A	06/04/00	-1	-1	-1	- 1	-1	-1	-1	.5	-2	-1.0	-1	-1	-1.0	-1	-1	-1	-1	-1	<10		_	_	Constitution of the configuration of the configurat
Alexandria Municipal Well #15	685764	Active		<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1		<1	<1		\vdash		+	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
		-	09/29/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10	\vdash	-	_	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			12/01/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10			_	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			09/30/09	< 0.5	< 0.5	<1	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	<1	<1	<1	< 0.5	<10			_	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			12/21/09	< 0.3	< 0.3	< 0.3	< 0.3	< 0.8	< 0.3	< 0.3	<3.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.4	< 5.2		_		Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/31/10	<1	< 0.5	< 0.5	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	< 0.5	< 0.5	< 0.5	< 0.5	<5		_		Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			06/04/10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.8	< 0.3	< 0.3	< 0.3	<03	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	_	< 0.3	< 0.3	7.5			<	40 Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			09/27/10	< 0.5	< 0.5	<1.0	<1.0	< 2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			12/16/10	< 0.5	< 0.5	<1.0	<1.0	< 2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/29/11	< 0.5	< 0.5	<1.0	<1.0	< 2.0	<1.0	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			06/16/11	< 0.5	< 0.5	<1	<1	<2	<1	<1	<5	<1	<1	<1	<1	<1	<1	< 0.5	< 0.5	< 0.5	<1	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			09/28/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<25				
			12/15/11	< 0.23	< 0.36	< 0.39	< 0.38	<1.1	< 0.32	< 0.36	<2	< 0.24	< 0.36	< 0.42	< 0.35	< 0.26	< 0.26	< 0.37	< 0.34	< 0.21	< 0.2	<12.5	< 0.23	< 0.34 < 0	.36	
			03/28/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<1	<1 <	:1	
			06/08/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<1	<1 <	:1	
Alexandria Municipal Well #16	749302	Active	06/04/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
(New well in place of MU #11)			09/29/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			12/01/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			09/30/09	< 0.5	< 0.5	<1	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	<1	<1	<1	< 0.5	<10				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	Ì		12/21/09	< 0.3	< 0.3	< 0.3	< 0.3	< 0.8	< 0.3	< 0.3	<3.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.4	<5.2				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/31/10	<1	< 0.5	< 0.5	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	< 0.5	< 0.5	< 0.5	< 0.5	<5				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	Ì		06/04/10	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	<3.4	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.3	8.7			<	40 Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	1	1	09/27/10	< 0.5	< 0.5		<1.0	<2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5		< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	1	1	12/16/10	<0.5	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5		< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	1	1	03/29/11	< 0.5	<0.5	<1.0		<2.0	<1.0	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5		< 0.5	<1.0	<20		-	\neg	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	i	 	06/16/11	<0.5	<0.5	<1	<1	<2	<1	<1	<5	<1	<1	<1	<1.0	<1	<1.0	< 0.5	<0.5	<0.5	<1	<20		-	\neg	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
	t		09/28/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<25		t	\neg	
	i	 	12/15/11	<0.23	<0.36		<0.38	<1.1	< 0.32	< 0.36	<2	< 0.24	< 0.36	< 0.42	<0.35	< 0.26	< 0.26	< 0.37			<0.2		< 0.23	<0.34 <0	1.36	
	t	1	03/28/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25		<1 <		
	i	 	06/08/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<1		:1	
			50,00,12	<u> </u>		<u>``</u>				- 1					- 1	- '-		- 1	-	`.	- 1	1.2.7				

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Well Name	Unique Well ID	Status	Date	1,2-DCA (µg/L)	Benzene (μg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Xylenes (µg/L)	Chloroethane (µg/L)	Chloro methane (µg/L)	MEK (μg/L)	MTBE (µg/L)	Isopropylbenzene/ Cumene (µg/L)	n-propylbenzene (μg/L)	Styrene (μg/L)	Tetrachloroethene/ Tetrachloroethylene (ug/L)	1,2,4-trimethylbenzene (µg/L)	Cis-1,2-Dichloroethylene	1,4 Dichlorobenzene	Trans-1,2 Dichloroethylene	Trichloroethene/ Trichloroethylene (µg/L)	Acetone	Bromodichloromethane	Chloroform	GRO	Data Source
Alexandria Municipal Well #17	762288	Active	06/04/08								Well bei	ng constr	ucted du	iring sam	oling date							<10				
(New well in place of MU #12)			09/29/08						Still b	eing deve	loped, sl	ould be a	ctive fo	r the Dec	ember 08	sampling ev	ent.					<10				
		1	12/01/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
		1	09/30/09	< 0.5	< 0.5	<1	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	<1	<1	<1	< 0.5	<10				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			12/21/09	< 0.3	< 0.3		< 0.3		< 0.3	< 0.3	<3.4		< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.4	<5.2				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/31/10	<1	< 0.5			<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	< 0.5		< 0.5	< 0.5	<5			1	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			06/04/10	<0.3	<0.3	< 0.3	<0.3	< 0.8	<0.3	<0.3	<3.4	< 0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	12			<40	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		1	09/27/10	<0.5	<0.5			<2.0	<1.0	<1.0	<5		<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5		<0.5	<1.0	<20			170	Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		1	12/16/10	<0.5	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	<0.5	<1.0	<20			+	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		!	03/29/11	<0.5	<0.5	<1.0	<1.0	<2.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<1.0	<20	\vdash	_	+	Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		1				_	_								_								\vdash		+-	
	-	1	06/16/11	< 0.5	< 0.5	<1	<1	<2	<1	<1	<5	<1	<1	<1	<1	<1	<1	< 0.5	_	< 0.5	<1	<20	\vdash	-+	+-	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		-	09/28/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<25	0.20	0.24		
		-	12/15/11	< 0.23	< 0.36	_	< 0.38	<1.1	< 0.32	2.1	<2		< 0.36	< 0.42	< 0.35	< 0.26	< 0.26	< 0.37	_	_	< 0.2			0.34 <0.		
		ļ	03/28/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<1	<1 <		
			06/08/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<1	<1 <1		
Ballpark Well	601366	Active	06/04/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
School)			09/29/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			12/01/08										Well wi	nterized,	unable to	collect sam	ple.									Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
			09/30/09	< 0.5	< 0.5	<1	<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	<1	<1	<1	< 0.5	<10				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			12/21/09													collect sam						1				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/31/10													collect sam										Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		1	06/07/10	< 0.3	-0.3	< 0.3	-0.3	< 0.8	< 0.3	< 0.3	<3.4	< 0.3	<0.3	<0.3	<0.3	< 0.3	<0.3	-0.3	< 0.3	< 0.3	< 0.3	7.8	П		<40	
		1	09/27/10	<0.5			<1	<2	<1	<1	<5	<1	<1	<1	<1	<1	<1	<0.5		<0.5	<1	<20		_	\40	Sampling analysis performed during Phase 3 (see attached Laboratory Report) Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		1		<0.5	<0.5	<1	<1	<.2	<1	<1	<>>	<1						<0.5	<0.5	<0.5	<1	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		-	12/16/10	-												collect sam										
		-	03/29/11													collect sam										
			06/16/11	< 0.5	< 0.5	<1	<1	<2	<1	<1	<5		<1	<1	<1	<1	<1	< 0.5	< 0.5	< 0.5	<1	<20			4	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			09/28/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<25				
			12/15/11													collect sam										
			06/08/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25	<1	<1 <1		
Finished Water *			06/16/11	< 0.5	< 0.5	<1	<1	<2	<1	<1	<5	<1	<1	<1	<1	<1	<1	< 0.5	< 0.5	< 0.5	<1	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			09/30/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<4	<1	<25	4.6	1.5 7	3	
		1	12/15/11	< 0.23	< 0.36	< 0.39	< 0.38	<1.1	< 0.32	< 0.36	<2	< 0.24	< 0.36	< 0.42	< 0.35	< 0.26	< 0.26	< 0.37	< 0.34	< 0.21	< 0.2	<12.5	1.1	0.54 1.:	;	
		1	03/28/12	<1	<1	<1	<1	<3	<1	<4	<4		<1	<1	<1	<1	<1	<1	<1	<1	<1	<25		<1 <		
			06/08/12	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<25		<1 <1		
																						t				
Trip Blank			06/04/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10				Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
1	1	t	09/29/08	<1	<1	<1	<1	<1	<1	<1	<5	<2	<1.0	<1	<1	<1.0	<1	<1	<1	<1	<1	<10			1	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
	—	t	12/01/08	<1	<1	<1	-1	<1	<1	<1	- 5	<2	<1.0	<1	<1	<1.0	<1	<1	2.3	<1	<1	<10		-	+	Sampling analysis performed during Phase 2 (see attached MVTL Laboratory Report
	1	1	09/30/09	<0.5	<0.5		<1	<2	<0.5	<0.5	- 5	<0.5	<1.0	<1	<1	<0.5	<1	<1	<1	<1	<0.5	<10	1	-+	+-	Sampling analysis performed during Phase 2 (see attached MV12 Laboratory Report)
	 	 	12/21/09	<0.3	<0.3			<0.8	< 0.3	<0.3	<3.4	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	_	<0.3	<0.5	<5.2	\vdash	-	+-	
	-	1			_	< 0.3	< 0.3												1			_	\vdash		+	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		-	03/31/10	<1	< 0.5		<1	<2	< 0.5	< 0.5	<5	< 0.5	<1	<1	<1	< 0.5	<1	< 0.5		< 0.5	< 0.5	<5	\vdash			Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		1	06/04/10	< 0.3	< 0.3			< 0.8	< 0.3	< 0.3	<1.3	< 0.3	< 0.3		< 0.3	< 0.3	< 0.3	< 0.3		< 0.3	< 0.4	<5.2	\vdash		<40	Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		ļ	09/27/10	< 0.5	< 0.5		<1.0	<2.0	<1.0	<1.0	<5		<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5		< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
		<u> </u>	12/16/10	< 0.5	< 0.5		<1.0	<2.0	<1.0	<1.0	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	_	< 0.5	<1.0	<20	$oldsymbol{\sqcup}$			Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			03/29/11	< 0.5	< 0.5	<1.0	<1.0	<2.0	<1.0	<1.0	< 5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 0.5	< 0.5	< 0.5	<1.0	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			06/16/11	< 0.5	< 0.5	<1	<1	<2	<1	<1	<5	<1	<1	<1	<1	<1	<1	< 0.5	< 0.5	< 0.5	<1	<20				Sampling analysis performed during Phase 3 (see attached Laboratory Report)
			09/28/11	<1	<1	<1	<1	<3	<1	<4	<4	<1	<1	<1	<1	<1	<1	<1	1.2	<4	<1	<25	<1	<1 <		
			12/15/11	< 0.23	< 0.36		< 0.38	<1.1	< 0.32	< 0.36	<2	< 0.24	< 0.36	< 0.42	< 0.35	< 0.26	< 0.26	< 0.37	0.79	< 0.21	< 0.2	<12.5		0.34 <0.		
									Ì									Ì	i –							
				1	1				1									1	1							
HRL/HBV/RA	A (nnh)G			1	2	200	50	300	NE	NE	4000	NE	300	NE	NE	5	100	50	10	600	5	4000	6	30 10		
IIKL/IIB V/KA	·• (Ppu)			1 1		200	30	300	, vie	. TE	4000	, vie	500	AE	, ve	1 3	100	30	10	000		7000	J	JU 10		

Notes:

Results are reported in µg/L or ppb (parts per billion)

All groundwater samples were analyzed for VOCs by EPA method 8260. From 9/30/09 to 6/4/10, method detection limits (MDLs) were requested in an effort to monitor contaminant trends below the previous reporting limit (RL) of 1 ppb. Sometime prior to the 3/31/09 event,

several of NTS's normal reporting limits (RLs) were revised to 0.5 ppb, including Benzene, 1,2-DCA, and several other contaminants of interest with respect to this investigation so the request for MDLs was not needed in these

Blank spaces indicate laboratory analysis did not include designated contaminant (see lab report in Appendix A - under separate binding)

Municipal Well construction, location, and geologic information is available in Table 1A

Table updated June 2011 to include updated sampling of existing municipal wells and Ballpark Well (a test/irrigation well within the new proposed future well field)

G = Values listed are from the Minnesota Department of Health's (MDHs) Groundwater Values Table and may be based on a single exposure duration (Acute, Short Term, Subchronic, or Chronic) or a range of exposure durations.

ALP = Alexandria Light & Power

MNDWIS Database results for treated water from treatment plant 1 (TP1) identified DCA & benzene (1995 & 1996), TCE (1993-1996), tetrachloroethane (1993, 1994, & 1996), xylenes (1994 & 1995), toluene (1995)

MNDWIS Database results for treated water from treatment plant 2 (TP2); all VOC results BDL 1993, 1994, 1995, 1996 other than four disifection by-products (see below) as stated by Rich Soule, MDH.

MNDWIS Database results for treated water from treatment plant 3 (TP3); all VOC results BDL 1998, 2000, 2003, 2007, 2010 other than four disifection by-products (see below) as stated by Rich Soule, MDH.

Four disinfection byproducts identified included: Bromodichloromethane, Bromoform, Chlorodibromomethane, & Chloroform.

- (1) Serco Laboratory Reports; samples collected during Alexandria Street Department Investigation (Leak #5382) based on hand written note. Effluent (treated) water samples collected in conjunction with raw (untreated) samples; in many cases effluent samples contained higher contaminant concentrations, especially for TCE and tetrachlororethylene.
- (2) MDH Laboratory Report with hand written well numbers; assumed to be pre-treat. Laboratory report is atteached to MDH Report on Investigation of Public Water Supply. The well number of one sample in report is unknown (had hand written note "Well #?"); unknown well sample contained TCE, ethylbenzene, and xylenes above reporting limit. Effluent (post treatment) sample contained DCA, TCE, benzene, ethylbenzene, and xylenes at lower concentrations.
- (3) MDH Laboratory Report for MPCA Underground Storage Tanks Program; samples assumed to be pre-treat.
- (4) MDH Laboratory Report; samples collected by MPCA.
- (5) Groundwater Technologies dated 3/10/1994 for Leak # 3864 (Table Report). On 9/23/01993, 72 ppm/ppb? (units not listed) GRO was identified in City Public Well 4 (CPW-4). This was the only known GRO analysis, therefore, a new column was not added to the table.
- n= Matrix Spike recovery not within control limits
- * Municipal Finished Water was collected from the sampling port in the discharge pipe to the clear well (storage tank), just before the addition of the treatment chemicals.

NE The HRL has not been established for this compound

Blank spaces indicate Not Analyzed in the laboratory (See lab reports).

Notes:

(1) Serco Laboratory Reports; samples collected during Alexandria Street Department Investigation (Leak #5382) based on hand written note.

Effluent (reach) supports, supports, supports, supports contested until a reaction and the reaction of the rea

- (2) MDH Laboratory Report with hand written well numbers; assumed to be pre-treat. Laboratory report is attached to MDH Report on Investigation of Public Water Supply.
- The well number of one sample in report is unknown (had hand written note "Well #?"); unknown well sample contained TCE, ethyl benzene, and xylenes above reporting limit

Effluent (post treatment) sample contained DCA, TCE, benzene, ethyl benzene, xylenes at lower concentrations.

- (3) MDH Laboratory Report for MPCA Underground Storage Tanks Program; samples assumed to be pre-treat.
- (4) MDH Laboratory Report: samples collected by MPCA.

ALP = Alexandria Light & Power

MNDWIS Database results for treated water from treatment plant 1 (TP1) identified DCA & benzene (1995 & 1996), TCE (1993-1996), tetrachloroehtane (1993, 1994, & 1996), xylenes (1994 & 1995), toluene (1995).

MNDWIS Database results for treated water from treatment plant 2 (TP2); all VOC results BDL 1993, 1994, 1995, 1996.

MNDWIS Database results for treated water from treatment plant 2 (1P2), all VOC results BDL 1993, 1994, 1995, 1996.

MNDWIS Database results for treated water from treatment plant 2 (TP3); all VOC results BDL 1998, 2000, 2003, 2007.

Bolded values indicate contaminant levels above the HRL (Health Risk Limit)
Additional Municipal Well information is available in Table 1A

Lab Analysis for 12/21/09 are estimated the reporting limit